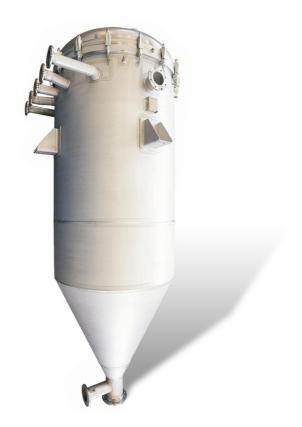


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# Cricketfilter® with wet cake discharge

### 1. Introduction

The Cricketfilter® is a pressure filter with a large specific filtration area due to the shape of the filter elements. The Cricketfilter® is unique because of its patented filter elements, which allow discharge of the filter cake by back pulsing.



#### 2. Description

The Cricketfilter® was introduced successfully into industry in 1990. The Cricketfilter® is used for direct filtration and for precoat / bodyaid filtration. Direct filtration is often possible because of the use of filter cloths. In some applications no filter aid is needed. This results in even more economical filtration. During precoat / body-aid filtration the Cricketfilter® is first precoated with a suitable filter aid. During filtration some filter aid is added into the feed to keep a high filtration capacity during a long cycle time. At the end of the filtration cycle the cake slurry is discharged through a bottom valve.

### 4. Standard design data

Material tank : carbon steel or stainless steel

Material filter elements : stainless steel

Design pressure : -1 to 6 bar (g)

Design temperature : -10 to 150 °C

(depending on filter cloth)

Max. allowable pressure drop : 4.5 bar
Design : AD-2000

and others upon request

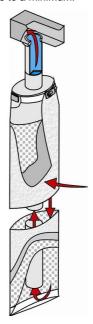
Approval : PED 97/23/EC

SELO 02257 (China) GOST R (Russia) and others upon request

#### 3. Cricketfilter® system advantages

The Cricketfilter®, which can be fully automated, produces a high filtrate clarity. Elements are mounted on internal filtrate manifolds. Cake release by backpulsing with air is done for manifolds individually, which results in an effective backpulse. No extra liquid is needed. During the short regeneration time the filter medium is cleaned intensively.

The filter element spacing and the filter cloth are selected to suit the filtration needs of the application. The filters are as standard equipped with a cover lift assembly. The Cricketfilter® itself has no rotating parts, keeping maintenance to a minimum.



#### 5. Specifications

| Туре                  | Filter<br>area<br>[m²] | Element<br>lenght<br>[mm] | Element<br>spacing<br>[mm] | Cake<br>volume<br>[dm³] | Filter<br>volume<br>[dm³] | Inlet/<br>outlet<br>DN<br>[mm] | Filtrat<br>outlet<br>DN<br>[mm] | Vent<br>DN<br>[mm] | Cake<br>dis-<br>charge<br>DN<br>[mm] |
|-----------------------|------------------------|---------------------------|----------------------------|-------------------------|---------------------------|--------------------------------|---------------------------------|--------------------|--------------------------------------|
| Small element spacing |                        |                           |                            |                         |                           |                                |                                 |                    |                                      |
| 800W-11/1000-58       | 11                     | 1000                      | 58.0                       | 140                     | 870                       | 50                             | 2x50                            | 65                 | 100                                  |
| 800W-16/1500-58       | 16                     | 1500                      | 58.0                       | 210                     | 1110                      | 50                             | 2x50                            | 65                 | 100                                  |
| 1000W-27/1500-58      | 27                     | 1500                      | 58.0                       | 350                     | 1810                      | 65                             | 4x50                            | 65                 | 150                                  |
| 1200W-42/1500-58      | 42                     | 1500                      | 58.0                       | 540                     | 2750                      | 100                            | 4x50                            | 65                 | 200                                  |
| 1200W-35/1500-68      | 35                     | 1500                      | 67.5                       | 520                     | 2750                      | 100                            | 4x50                            | 100                | 200                                  |
| 1200W-58/2500-68      | 58                     | 2500                      | 67.5                       | 870                     | 3870                      | 100                            | 5x80                            | 100                | 200                                  |
| 1400W-78/2500-68      | 78                     | 2500                      | 67.5                       | 1170                    | 5420                      | 150                            | 5x80                            | 100                | 200                                  |
| 1600W-108/2500-68     | 108                    | 2500                      | 67.5                       | 1610                    | 7280                      | 150                            | 6x80                            | 150                | 250                                  |
| 1800W-139/2500-68     | 139                    | 2500                      | 67.5                       | 2090                    | 9400                      | 150                            | 6x100                           | 150                | 250                                  |
| 2000W-180/2500-68     | 180                    | 2500                      | 67.5                       | 2710                    | 11900                     | 200                            | 7x100                           | 150                | 300                                  |
| 2200W-222/2500-68     | 222                    | 2500                      | 67.5                       | 3340                    | 14720                     | 200                            | 9x100                           | 150                | 300                                  |
| 2400W-272/2500-68     | 272                    | 2500                      | 67.5                       | 4080                    | 17920                     | 200                            | 9x100                           | 150                | 200                                  |

## 5. Specifications (continued)

| Туре                   | Filter<br>area<br>[m²] | Element<br>length<br>[mm] | Element spacing [mm] | Cake<br>volume<br>[dm³] | Filter<br>volume<br>[dm³] | Inlet/<br>outlet<br>DN<br>[mm] | Filtrate<br>outlet<br>DN<br>[mm] | Vent<br>DN<br>[mm] | Cake<br>dis-<br>charge<br>DN<br>[mm] |
|------------------------|------------------------|---------------------------|----------------------|-------------------------|---------------------------|--------------------------------|----------------------------------|--------------------|--------------------------------------|
| Medium element spacing |                        |                           |                      |                         |                           |                                |                                  |                    |                                      |
| 800W-7.4/1000-80       | 7.4                    | 1000                      | 80                   | 150                     | 870                       | 50                             | 2x50                             | 50                 | 100                                  |
| 800W-11/1500-80        | 11.0                   | 1500                      | 80                   | 220                     | 1110                      | 50                             | 2x50                             | 50                 | 100                                  |
| 1000W-19/1500-80       | 19.0                   | 1500                      | 80                   | 370                     | 1810                      | 65                             | 3x50                             | 65                 | 150                                  |
| 1200W-26/1500-90       | 26.0                   | 1500                      | 90                   | 580                     | 2750                      | 100                            | 3x65                             | 80                 | 200                                  |
| 1200W-44/2500-90       | 44.0                   | 1500                      | 90                   | 960                     | 3870                      | 100                            | 3x65                             | 80                 | 200                                  |
| 1400W-62/2500-90       | 62.0                   | 2500                      | 90                   | 1370                    | 5420                      | 100                            | 4x65                             | 100                | 200                                  |
| 1600W-81/2500-90       | 81.0                   | 2500                      | 90                   | 1770                    | 7280                      | 150                            | 5x80                             | 100                | 200                                  |
| 1800W-105/2500-90      | 105.0                  | 2500                      | 90                   | 2310                    | 9400                      | 150                            | 5x100                            | 150                | 250                                  |
| 2000W-137/2500-90      | 137.0                  | 2500                      | 90                   | 3020                    | 11900                     | 150                            | 6x100                            | 150                | 250                                  |
| 2200W-169/2500-90      | 169.0                  | 2500                      | 90                   | 3720                    | 14720                     | 200                            | 7x100                            | 150                | 300                                  |
| 2400W-208/2500-90      | 208.0                  | 2500                      | 90                   | 4580                    | 17920                     | 200                            | 8x100                            | 150                | 300                                  |
| Large element spacing  |                        |                           |                      |                         |                           |                                |                                  |                    |                                      |
| 1200W-22/1500-110      | 22                     | 1500                      | 110                  | 640                     | 2750                      | 80                             | 3x65                             | 80                 | 200                                  |
| 1200W-37/2500-110      | 37                     | 2500                      | 110                  | 1070                    | 3870                      | 80                             | 3x65                             | 80                 | 200                                  |
| 1400W-29/1500-110      | 29                     | 1500                      | 110                  | 850                     | 5420                      | 100                            | 3x65                             | 100                | 200                                  |
| 1400W-49/2500-110      | 49                     | 2500                      | 110                  | 1420                    | 5420                      | 100                            | 3x65                             | 100                | 200                                  |
| 1600W-69/2500-110      | 69                     | 2500                      | 110                  | 2000                    | 7280                      | 150                            | 4x80                             | 100                | 250                                  |
| 1800W-90/2500-110      | 90                     | 2500                      | 110                  | 2610                    | 9400                      | 150                            | 5x100                            | 150                | 250                                  |
| 2000W-109/2500-110     | 109                    | 2500                      | 110                  | 3170                    | 11900                     | 150                            | 5x100                            | 150                | 300                                  |
| 2200W-138/2500-110     | 138                    | 2500                      | 110                  | 4010                    | 14720                     | 150                            | 7x100                            | 150                | 300                                  |
| 2400W-170-2500/110     | 170                    | 2500                      | 110                  | 4920                    | 17920                     | 200                            | 7x100                            | 150                | 300                                  |

Other types on request.

Notes: Dimensions are for reference only. Subject to technical alteration without prior notice.

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